

## Garant

### Solid carbide HPC deep-hole drill plain shank DIN 6535 HA 20×D, DLC, Ø DC h7: 4,2 mm



#### Order data

Order number	123590 4,2
GTIN	4045197354273
Item class	11E

#### Description

##### Version:

Spiral fluted, with **6 guide chamfers** and internal cooling channels. New generation of high performance deep hole drills in the HPC range. **With 135° point angle** and special **h7 cutting edge tolerance** for optimum generation of a deep hole. **High roundness and alignment accuracy of the deep hole.**

##### Recommendation:

##### Maximum drilling depth:

Flute length (see table) less 1.5×nominal Ø.

##### Note:

Flute length  $L_c = L_2 + 1.5 \times D_c$ .

For process reliability when using the 16×D deep hole drill, an initial centre drilling with No. 121068 – 121130 or 4×D pilot drilling operation with pilot drill No. 122606 is necessary. For deep holes greater than 20×D, a 6×D pilot hole with pilot drill No. 122606 is absolutely essential.

**The generation of a pilot hole improves process reliability.** See also pages 129/130.

Standard: Manufacturer's standard

Tolerance nominal Ø: h7

Number of cutting edges Z: 2

Tolerance nominal Ø: h7

recommended maximum drilling depth  $L_2$ : 103.7 mm

Overall length L: 160 mm

Shank Ø  $D_s$ : 6 mm

Feed f in aluminium short-chipping: 0.22 mm/rev.

#### Technical description

Nominal Ø $D_c$	4.2 mm
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Number of cutting edges Z	2
Feed f in aluminium short-chipping	0.22 mm/rev.
Flute length L <sub>c</sub>	110 mm
Tolerance nominal Ø	h7
Shank Ø D <sub>s</sub>	6 mm
Overall length L	160 mm
Standard	Manufacturer's standard
recommended maximum drilling depth L <sub>2</sub>	103.7 mm
Coating	DLC
Tool material	Solid carbide
Drill depth up to	20×D
Point angle	135 degrees
Shank	DIN 6535 HA to h6
Through-coolant	yes, with 40 bar
Machining strategy	HPC
Pilot drill required	yes, pilot drill
Colour ring	yellow
Type of product	Jobber drill